WEVER INSTRUMENTS

INTEGRATED CATALOG



Zeu Wave

Uhrer







GREETINGS

Since its establishment in 2006, WeverInstruments has been committed to the advancement of the healthcare industry and national health and welfare as a venture company that specializes in research and development, manufacture, and sale of cutting-edgemedical equipment for hospitals and excellent medical devices.

Today, the company is centering on selling key products in domestic and overseas markets including Zeus Wave (model name) -- which is a combination pain relief system involving extracorporeal shock wave therapy and high-intensity laser treatment -- and TESLA-3000 (model name) as combination laser and magnetic stimulator.

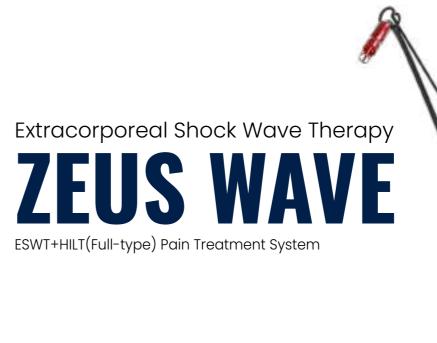
Guided by our corporate philosophy of "Secure customer satisfaction and trust at a time with satisfying products," we at WeverInstruments are developing and producing hi-tech medical devices by putting customer, talent, value, and knowledge at the center. We will always remember when we first started and continue to make contributions to the healthy living of human beings.

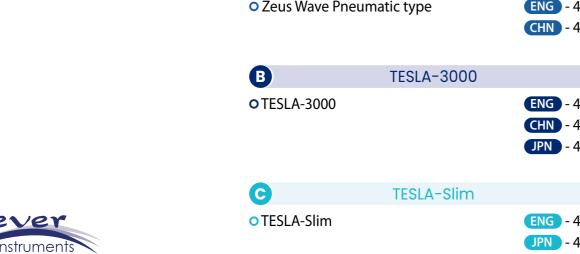
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Extracorporeal Shock Wave Therapy

What is ESWT?

Extracorporeal shock wave therapy(ESWT) is one of the few proven medical techniques that can safely treat, in a non-surgical way, chronic pain syndromes in the musculoskeletal system, on which traditional pain treatment had not shown a great effect. ESWT is a non-invasive procedure for the treatment of acute and chronic pain in the musculoskeletal system.

The shock waves used in ESWT are concentrated and transmitted to the target tissue at the point of pain. Shock waves also promote blood circulation and metabolism in the affected area. The main medical principle that extracorporeal shock waves affect biological tissues is based on the biochemical or biomolecular conversion and transfer of mechanical stimuli into tissues of the human body.



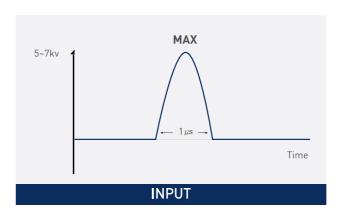
Application Sites

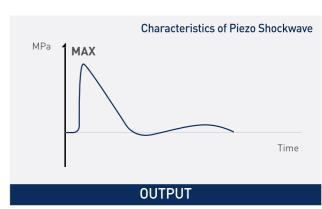
Musculoskeletal pain is one of the most common pain disorders that have a major impact on human life. Most are caused by enthesopathies, such as tennis elbow, plantar fasciitis, and shoulder joint calcifications, and are increasingly diagnosed as a major cause of chronic pain. ESWT has been recognized as a useful method for the treatment of numerous acute and chronic pain syndromes in the musculoskeletal system.

O Piezo-type(Focusing Method) - FSWT -

What is Piezo?

The principle of the Piezo shock wave is that a focused shockwave is generated when a high-voltage(5KV-7KV) pulse is applied to a piezo element for a short period ($1-2 \mu s$). After the shockwave sharply rises, it drops exponentially and shows a short negative pressure





Piezo-type FSWT Technology!

Piezo elements have a geometric structure in a concave shape to generate shock pulses for 1–2 µs when short high-voltage pulses are applied. Piezo elements are precisely designed so that the generated shock waves can be concentrated at specific points. This technology provides a precise and sophisticated focus area and provides painless treatment without making noise. The energy can be adjusted freely with little effect on the size of the focus area.

Application of FSWT



When treating enthesopathies (Tendon, Bone)



When breaking up calcium deposits



When identifying the location of the pain spots with the pain triggers that cause synalgia



When treating superficial pain trigger points / pain points and profundus pain trigger points / pain point





Piezo Handpiece & Elastomer Gel Pads





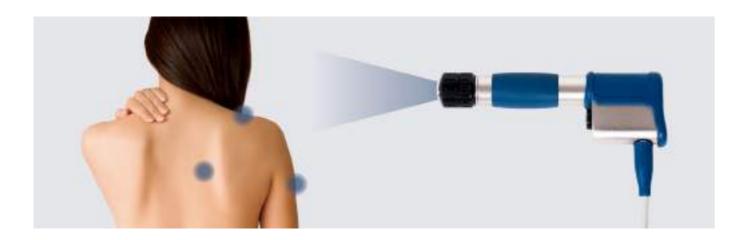
O Pneumatic-type(Radial Method) - RSWT -

Features of RSWT

The Radial shock wave can output pulses of high energy to facilitate the treatment of various tissues and structures with various pathological and medical conditions.

Through the applicator, the transmitted kinetic energy generates radial shock waves from the area of contact with the skin to the desired treatment area.

When the lesion site is repeatedly irradiated with shock wave energy generated from the gun head, temporary microdamage to the lesion site induces the formation of neovascularization, and the supply of blood flow increases to facilitate the healing of the lesion tissue, thereby relieving the pain. This mode is effective in relieving pain by destroying the calcium deposits accumulated at the trigger point.



Features of RSWT

- When smoothing muscle tissue
- When relaxing muscular tension(Tight Band)
- When locating and treating superficial pain trigger points
- When treating a wide area
- When activating connective tissues (Cell Epilepsy)

O High Intensity Laser Therapy - HILT -

What is HILT?

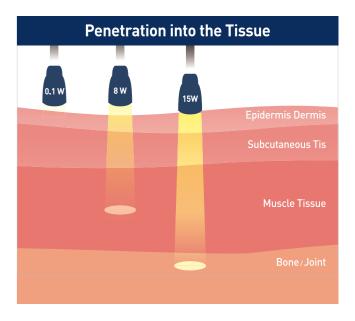
The High-intensity laser can stimulate tissue growth and cell regeneration in the body and can achieve the maximum therapeutic effect without side effects by precisely and delicately controlling its effects to only the damaged area.

Effects of HILT!

The principle of HILT is that enzymes inside tissue cells absorb energy from laser light when skin tissue cultures are irradiated by the laser. It increases cell regeneration and DNA production and keeps cells healthy and in a high energy state. It not only reduces pain and inflammation but also stimulates nerve regeneration, muscle pain relief, and immune system response.

What is HILT

- 1. Immediate pain treatment that is strong and long-lasting
- 2. Shoulder Stiffness: Impingement Syndrome, Tendinitis, Rotator Cuff Tear
- 3. Tennis / Golfer's Elbow
- 4. Gonarthritis: Osteoarthritis, Rheumatism
- 5. Ankle / Cervical Sprain
- 6. Plantar Fasciitis
- 7. Back Ache, Arthritis, Muscle Cramp



Integrated Treatment Effects

The ESWT is an innovative and non-invasive solution for chronic musculoskeletal pain. ESWT is used in physiotherapy, orthopedics and sports medicine and is mainly used for the treatment of muscle- and tendon-related chronic diseases, muscle- and tendon-related diseases, calcification, and bone problems.

The HILT is a breakthrough technology that has proven its clinical effectiveness based on the principle of laser therapy that has already been recognized. The HILT machine is a powerful pain relief device that uses biomedical and photomechanical stimulation to stimulate soft tissues to prevent tolerance.

Air-gun Handpiece & Applicators





TIP

The combination of ESWT&HILT can help to maximize therapeutic effects and promote recovery. The Zeus Wave uses a single-device technology that allows for both ESWT&HILT.

What is HILT

Obesity Treatment
Depression Treatment

Prostate Treatment Remove Cellulite





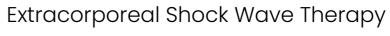












Piezo+Pneumatic(Combine-type) Pain Treatment System







Wever Instruments Co., Ltd.

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E.S.W.T?

Extracorporeal shock wave therapy(ESWT) is one of the few proven medical techniques that can safely treat, in a non-surgical/non-invasive way, acute and chronic pain syndromes in the musculoskeletal system, on which traditional pain treatment had not shown a great effect.

Applicatation Sites



Calcific Tendinitis Tennis/Golfer's



Patellar Tendinitis



Plantar Fasciitis

ZEUS WAVE Piezo+Pneumatic-type Specifications

Elbow

± 20%
(H)mm
2 pounds)



Non-surgical & Non-invasive Treatment



Two functions on One device



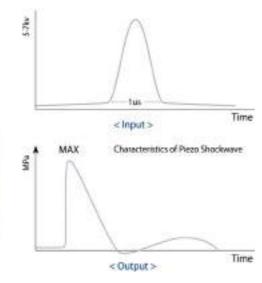
Application to Various Fields (Musculoskeletal Treatment, Sports Rehabilitation, Esthetic)

O Piezo-type(Focusing Method) : Focusing Shock Wave Therapy

What is Piezo?

The principle of the Piezo shock wave is that a focused shockwave is generated when a high-voltage(5K V-7KV) pulse is applied to a piezo element for a short period (1 $-2 \mu s$). After the shockwave sharply rises, it drops exponentially and shows a short negative pressure



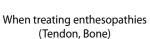


Piezo-type FSWT Technology!

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Application of FSWT







When breaking up calcium deposits



When identifying the location of the pain spots with the pain triggers that cause synalgia



When treating superficial pain trigger points / Pain points and profundus pain trigger points

Piezo Handpiece & Elastomer Gel Pads













25mm 30mm





O Pneumatic-type(Radial Method) : Radial Shock Wave Therapy

Features of RSWT



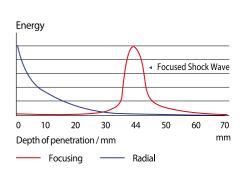
Air-gun Handpiece & Applicators



Composite Application of FSWT and RSWT

Combining a focusing shock wave and a radial shock wave integrates the advantages of both technologies. Focusing shock waves can be used to cure tendon inflammations in painfully indurated areas of the muscles(Pain Points) and other layers. Radial shock waves relax the muscle and connective tissues(Cell Epilepsy).

The combination of FSWT&RSWT can help to maximize therapeutic effects and promote recovery. The Zeus Wave uses a single-device that allows for both Piezo & Pneumatic.



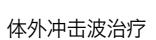












Piezo+Pneumatic(Combine-type) Pain Treatment System







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什么是体外冲击波治疗 (E.S.W.T)?

体外冲击波治疗 (ESWT) 是一项在医疗届屈指可数的经证实的技术之一,可以通过非手术治疗/非侵入性治疗方式安全的治疗肌骨系统中的急性和慢性疼痛综合征,而此类疾病此前采用传统方法治疗时未收到过显著效果。

适用部位



钙化性肌腱炎



上髁炎 (网球肘、高尔夫肘)



髌腱炎



足底筋膜炎

ZEUS WAVE Piezo+Pneumatic-type Specifications

额定功率	AC 200~240V
	50/60Hz
电力消耗	1.1kVA
压电型的最大能量流密度	0.702mJ/mm ² ±15%
压电型的最大穿透深度	40mm±20%
压电型的最大聚焦尺寸	1.78x1.78x15.81mm±20%
气动式的最大强度	7.0 bar±10%
气动式的频率	0~10Hz±10%
尺寸	500(W) x 720(D) x 980(H)mm
重量	About 70kg(about 35.2 pounds)



非手术治疗 & 非侵入性治疗



采用气压弹道式+压电式双功能冲击波治疗仪



应用广泛(肌肉骨骼系统疾病治疗、运动康复、美容)

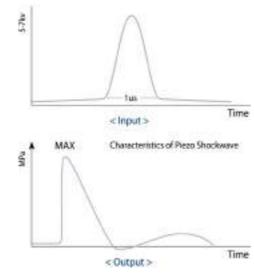


○ 压电式(聚焦式):聚焦式冲击波治疗

什么是压电式(Piezo)?

压电式冲击波的原理为高电压(5~7千伏)脉冲如在短时间(1~2微秒)内被压电元件感应,即生成聚焦式冲击波。冲击波急剧上升后以等比级 数减少,并显示短暂负压的特性。





压电式聚焦式冲击波治疗(FSWT)技术!

压电式元件具有凹面几何结构, 当感应到短暂高压脉冲后即生成1~2微秒的冲击脉冲。压电式元件设计精密, 可使生成的冲击波聚焦于特定 部位。该技术可在聚焦部位以无噪音及精准的方式应用,实现无疼痛的治疗效果。可自由调节能量,并且对聚焦部位的面积无巨大影响。

聚焦式冲击波(FSWT)的应用





(筋腱、骨骼)





可应用于分解钙化 沉淀物



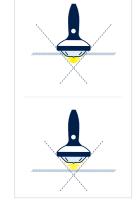
可应用于确定引起相关疼痛 的病症诱发点和痛点的位置



可应用于治疗表在性及深在性 病症诱发点/痛点

压电式手柄和弹性凝胶垫







25mm



30mm





35mm



○ 气压弹道式(放射式):放射式冲击波治疗

放射式冲击波(RSWT)的特性!



气压式手柄及治疗头







10_{mm}



15mm(A)



5_{mm}

15mm(B) 20_{mm}

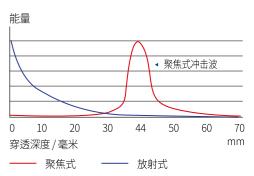


35_{mm}

聚焦式冲击波治疗(FSWT)和放射式冲击波治疗(RSWT)的综合应用

结合聚焦式冲击波和放射式冲击波,将两种技术的优点合而为一。可用聚焦式冲击波 治疗肌肉硬化部位(痛点)和存在于其他层的肌腱炎。放射式冲击波可松弛肌肉与结 缔组织(细胞的癫痫)。

结合聚焦式冲击波(FSWT)与放射式冲击波(RSWT)可取得最佳治疗效果,加快恢复。 Zeus Wave为一体机(单个)设备设备, 压电式和气压弹道式皆可使用。



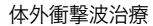












Piezo+Pneumatic(Combine-type) Pain Treatment System







Wever Instruments Co., Ltd.

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体外衝擊波治療(E.S.W.T)?

体外衝撃波治療(ESWT)は、医療界で数えるほどの確認された技術の1つであり、非手術的/非侵襲的な治療法によって、筋骨格系の急性および慢性疼痛症候群を安全に治療することができます。これらの疾患は従来の方法で治療されても顕著な効果が得られなかったものです。

適用箇所



鈣化性腱炎



上髁炎 (テニス肘、ゴルフ肘)



膝蓋腱炎



足底筋膜炎

ZEUS WAVE Piezo+Pneumatic-type Specifications

定格電力	AC 200~240V
定格周波数	50/60Hz
電力消費	1.1kVA
圧電型の最大エネルギーフロー密度	0.702mJ/mm ² ±15%
圧電型の最大貫通深度	40mm±20%
圧電型の最大焦点サイズ	1.78x1.78x15.81mm±20%
ニューマチック型(最大)の強度	7.0 bar±10%
空気圧式の頻度	0~10Hz±10%
サイズ	500(W) x 720(D) x 980(H)mm
重量	About 70kg(about 35.2 pounds)



非侵入性治療 & 侵襲的でない治療



気圧弾道式と圧電式の二重機能の衝撃波治療器を採用しました



幅広い用途に広く使用されています。(筋骨格系疾患治療、運動リハビリ 美窓)

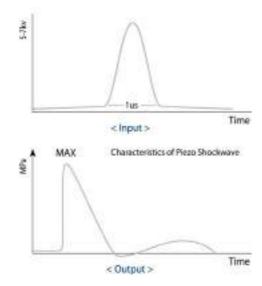


○ 圧電式(集中式):集中式衝撃波治療

圧電式(Piezo)とは何ですか?

圧電式衝撃波の原理は、高電圧(5~7千ボルト)のパルスが短時間(1~2マイクロ秒)内に圧電素子によって感知されると、集中式衝撃波が 生成されます。衝撃波は急激に上昇した後、等比級数で減少し、短期間の負圧の特性を示します。





圧電式集中式衝擊波治療(FSWT)技術!

圧電式要素は凹面の幾何学構造を持ち、短時間の高電圧パルスを感知した後、1~2マイクロ秒の衝撃パルスを生成します。圧電式要素 は精密に設計されており、生成された衝撃波を特定の部位に集中させることができます。この技術は、集中部位において無音で正確な方 法で適用可能であり、痛みのない治療効果を実現します。エネルギーは自由に調整可能であり、集中部位の面積に大きな影響はありませ h_{\circ}

集中式衝撃波(FSWT)の応用

圧電式ハンドルと弾性ゲルパッド



付着骨点疾患(腱、骨格)



石灰化沈着物の分解に適用可能



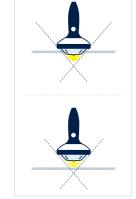


発点や痛点の位置を特定す

るのに適用できる

関連する痛みを引き起こす疾患の誘 表在性および深在性の疾患誘発点 /痛点の治療に適用できる

の治療に適用できる





25mm



30mm



35mm





○ 空気圧弾道式(放射式):放射式衝撃波治療

放射式衝撃波(RSWT)の特性!



放射式衝撃波は高エネルギーパルスを出力 し、様々な組織や構造のさまざまな病理およ び医療状態を治療します。治療ヘッドから 伝達される動能によって放射式衝撃波が生 成され、皮膚に接触する領域から治療が必要 な部位に作用します。

放射式衝撃波(RSWT)の応用

- 筋肉組織を滑らかにする治療に適用で きる
- •筋肉の緊張部位(緊張している凝り固ま った部位)を緩和するのに適用できる
- ●表在性痛みの誘発点の位置を確認し、 治療するのに適用できる
- 広範囲の部位に適用できます
- 結合組織(細胞のてんかん)の活性化に使 用できます

圧力式ハンドルおよび頭部の治療











15mm(A)



15mm(B)

5_{mm}

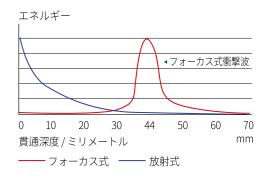




20_{mm} 35_{mm}

フォーカス式衝撃波治療(FSWT)および放射式衝撃波治療(RSWT)

結合焦点式衝撃波と放射式衝撃波、両技術の利点を組み合わせて、一つに統合しま す。焦点式衝撃波は筋肉硬化部位(痛点)や他の層に存在する腱炎の治療に使用でき ます。放射式衝撃波は筋肉と結合組織(細胞の癲痫)の緊張を緩和します。焦点式衝 撃波(FSWT)と放射式衝撃波(RSWT)を組み合わせることで、最適な治療効果を得 ることができ、回復を加速します。Zeus Waveはオールインワン(単一)装置で、圧 電式と気圧弾道式の両方を使用できます。













Extracorporeal Shock Wave Therapy

ZEUS WAVE

Focusing(Piezo-type) Pain Treatment System







Wever Instruments Co., Ltd.

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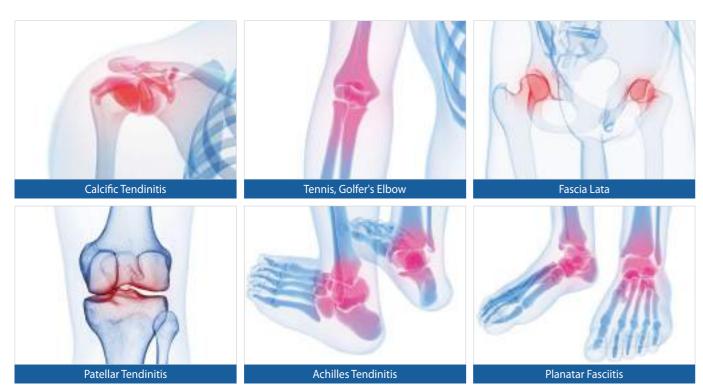




Extracorporeal Shock Wave Therapy

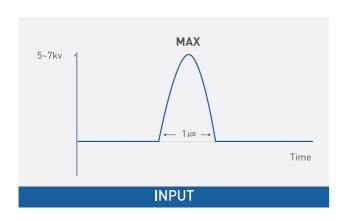
What is ESWT

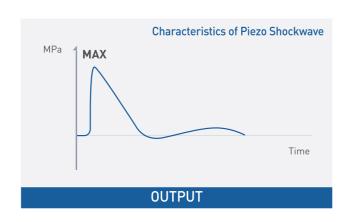
Extracorporeal shock wave therapy (ESWT) is one of the few proven medical techniques that can safely treat, in a nonsurgical/non-invasive way, acute and chronic pain syndromes in the musculoskeletal system, on which traditional pain treatment had not shown a great effect.



Principle of Piezo

The principle of the Piezo-Shock Wave is that a focused shockwave is generated when a high-voltage (5KV–7KV) pulse is applied to a piezo element for a short period (1–2 μs). After the shockwave sharply rises, it drops exponentially and shows a short negative pressure.





Features of FSWT

Piezo elements have a geometric structure in a concave shape to generate shock pulses for 1–2 µs when short highvoltage pulses are applied. Piezo elements are precisely designed so that the generated shock waves can be concentrated at specific points. This technology provides a precise and sophisticated focus area and provides painless treatment without making noise. The energy can be adjusted freely with little effect on the size of the focus area.

Piezo Handpiece & Elastomer Gel Pads

















Generation Comparision for Piezo

Multy-array type (2nd generation) Single-type (1st generation) **OUR TECHNOLOGY** Cylindrical piezoelectric elements **Element** Concave single element use configuration 200 units single arrays **Element model** Penetration 40 ~ 44mm 30mm depth **Number of** 5 ~ 10 million shocks 70 thousand ~1 million shocks shocks used

ZEUS WAVE Piezo-type Specifications

Rated Power	AC 200~240V	Penetration Depth of Piezo-type(Max.)	40mm±20%
Rated Frequency	50/60Hz	Focusing Size of Piezo-type(Max.)	1.78x1.78x15.81mm±20%
Power Consumption	1.1kVA	Dimension	500(W) x 720(D) x 980(H)mm
Energy Flux Density of Piezo-type(Max.)	0.702mJ/mm ² ±15%	Weight	About 41kg













Radial(Pneumatic-type) Pain Treatment System







Wever Instruments Co., Ltd.







Extracorporeal Shock Wave Therapy

O Pneumatic Type

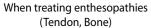
What is **ESWT**

Extracorporeal shock wave therapy (ESWT) is one of the few proven medical techniques that can safely treat, in a non-surgical/non-invasive way, acute and chronic pain syndromes in the musculoskeletal system, on which traditional pain treatment had not shown a great effect.



Application of FSWT







When breaking up calcium deposits



When identifying the location of the pain spots with the pain triggers that cause synalgia



When treating superficial pain trigger points / Pain points and profundus pain trigger points

Principle of Radial

When the lesion site is repeatedly irradiated with shock wave energy generated from the gun head, temporary micro-damage to the lesion site induces the formation of neovascularization, and the supply of blood flow increases to facilitate the healing of the lesion tissue, thereby relieving the pain. This mode is effective in relieving pain by destroying the calcium deposits accumulated at the trigger point.

Features of RSWT



Air-gun Handpiece & Applicators



ZEUS WAVE Pneumatic-type Specifications

Rated Power	AC 200~240V	Frequency	0~10Hz ± 10%
Rated Frequency	50/60Hz	No. of shocks	0~500 Shock ± 10%
Power Consumption	1.1kVA	Dimension	500(W) x 720(D) x 980(H)mm
Max. intensity	7.0bar ± 10%	Weight	About 65kg











体外冲击波治疗仪

ZEUS WAVE

Radial(Pneumatic-type) Pain Treatment System













体外冲击波治疗仪

为什么医院都用冲击波治疗疼痛?

Zeus Wave体外冲击波治疗仪利用压缩气体产生的能量驱动手柄内的子弹体,使子弹体以脉冲式冲击方式撞击治疗头,将脉冲声波转换为的弹道式冲击波,对骨肌疾病等有良好的治疗作用。

- ●保证产品质量稳定性:韩国自2016年起生产,销售量已超过3,000辆。
- 高能量治疗头: 6款治疗头可供选择的有5mm,10mm,15mm,20mm,35mm的多种治疗头适用于不同治疗部位。
- 10寸高清液晶触摸屏, 简约直观的操作页面, 功能清晰, 一目了然。
- 采用国际先进双手柄、气泵、汽阀等高质量的部件。
- 采用钛治疗头: 更深的治疗深度,以获得更大的输出能量、可扩展到骨科的应用。

常见部位

肌筋膜系统的疼痛是对人类生活有重大影响的最常见疼痛疾患之一。大部分症状表现为网球肘、足底筋膜炎、肩关节钙化等例如肘部发炎、足底筋膜炎、和肩关节钙化等骨筋膜疾病。并且这些症状是产生慢性疼痛的主要原因。体外冲击波治疗是被公认为治疗肌筋膜系统诸多急慢性疼痛综合征的有效的方法。



气压弹道式冲击波适应症

活应症

足底筋膜炎、跟腱痛、肩部钙化性肌腱炎、上髁炎、腰脊柱综合症、肱骨外上髁炎、髂胫束摩擦综合症、肩周炎、坐骨神经痛、骨折不愈合等。

适用科室

康复理疗科、运动医学科、骨科、疼痛科、神经科、中医(骨)伤科、针灸科等。

ZEUS WAVE Pneumatic-type Specifications

额定功率	AC 200~240V	频率	0~10Hz ± 10%
额定频率	50/60Hz	冲击次数	$0~500 \text{ Shock} \pm 10\%$
功耗	1.1kVA	尺寸	500(W) x 650(D) x 900(H)mm
最大强度	5.0bar ± 10%	重量	About 65kg

气压弹道式冲击波适应症

气压弹道式冲击波可以输出高能量脉冲,促进具有各种不同病理状态和医学疾病的各种不同组织和结构的治疗。 通过冲击波治疗头,所发射的动能会从与皮肤接触的部位至所需的治疗区域产生气压弹道式冲击波。



气压式手柄及治疗头





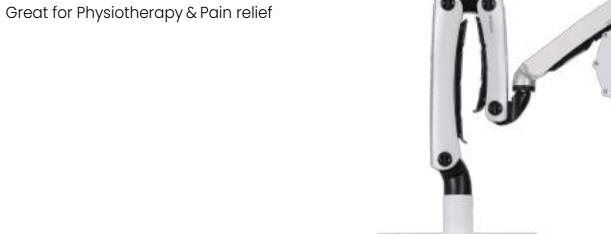






Electro Magnetic Stimulator









Wever Instruments Co., Ltd.

Address Wever B/D, 22-9, Chungui-ro 37beon-gil, Uijeongbu-si Gyeonggi-do, Republic of Korea Tel +82-31-853-1924 Fax +82-31-853-1925 Website www.weverinstruments.com ZEUS WAVE(Pneumatic-type) PR brochure CHN Rev.1







Electro Magnetic Stimulator

→ Deep-penetrating Electromagnetic Field Therapy & Laser Therapy

TESLA-3000, a compound stimulus device for deep-stimulation electromagnetic field therapy and laser therapy, is a medical device for pain treatment that provides synergistic effects. It applies a strong time-varying magnetic field (Biphasic) instantaneously to the body that affects the depth of the muscles and nerve tissue to help relieve pain.

Features of TESLA-3000

- 1. The magnetic field safely and conveniently stimulates the nervous system without the interference of fat and bones, while causing no harm to the body
- Offering non-invasive stimulation, it does not cause skin damage or pain.
- 3. The magnetic field penetrates deep into the human body, thereby allowing deeper and better stimulation compared to conventional electrical stimulation therapies.
- 4. A non-invasive, non-contact treatment can be performed even with the patient wearing clothes.



- 1. Therapeutic laser Pain relief
- 2. Electromagnetic therapy stimulator Muscle pain relief

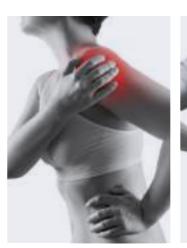
Advantages of TESLA-3000

- 1. High power and intensified stimulation
- 2. Stable operation even after a long period of treatment
- 3. Easy and convenient operation (learning how to use it takes no longer than 5 minutes)
- 4. It can be used semi-permanently without any maintenance costs including consumables
- 5. The minimum time required to complete the treatment of one patient

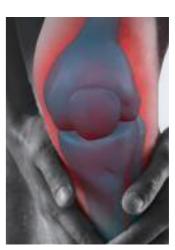
TESLA-3000 Specifications

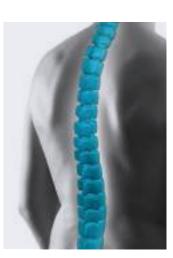
Rated Voltage	AC 220~230V, 50/60Hz
Power Consumption	2KVA
Magnetic Field Strength	0~4.5T
Magnetic Field Waveform	Biphasic
Stimulation Frequency	0.1~30Hz
Treatment Mode	10 Automatic Mode
Size	38(W)×49(D)×141(H)cm
Weight	56kg











→ Treatment of Musculoskeletal Disorders

TESLA-3000 effectively relieves pain by applying non-invasive magnetic filed (deep stimulation) and using 3-point laser on the patient's tender points.

→ Treatment sites of TESLA-3000







Shoulder

۸rm







Achilles tendon

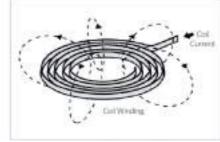
→ Magnetic Head(Transducer)

TESLA-3000 applies a strong biphasic magnetic field instantaneously to the body that affects the depth of the muscles and nerve tissue

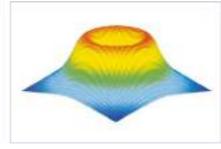
Hip joint







Induced magnetic field generated by a coil of wire



Simulation of induced electromagnetic field generated in the human body





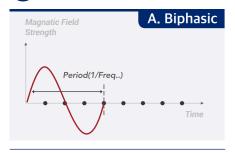
ELECTRO MAGNETIC THERAPY

Unlike general electrical therapies used for pain treatment, magnetic therapy treats pain by generating a current induced in a noncontact manner instead of directly conducting current to and through the human body. When a magnetic field that changes rapidly in time is applied around an electrical conductor, an eddy current is formed in the conductor according to Faraday's Law (the human body has a lower electrical conductivity compared to metal, while having the properties of a conductor). The eddy current formed as described above stimulates the nerve cells and muscles, thus providing lasting pain relief effects. In other words, the magnetic therapy allows more fundamental treatment by stimulation of deep biological tissues that are not treatable with conventional electric treatment. The maximum strength of the electromagnetic field generated on the surface of the transducer is 100 to 140V/m, which is transmitted to the deep part of the human body and decreases as an exponential function. It safely stimulates the heart and treats it. An electromagnetic field of 15 to 30 V/m is generated at 100 mm deep inside the body safely stimulates the deep part. It enables the treatment of parts of the body where it is difficult to attach electrodes for electric therapy, while the harmless magnetic therapy significantly reduces tissue damage and other risks. In addition, a magnetic field has the property of passing through a specific medium without significant energy attenuation (treatment can be delivered with the patient wearing clothes), thus allowing treatment of the depth of the affected area.

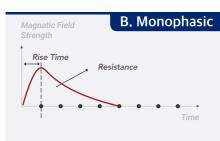
🟅 LOW LEVEL LASER THERAPY [LLLT]

Researches on low-power laser treatment (600 to 904 nm / 2 to 100 mW) for biostimulation effect have been actively conducted since the 1980s. A study published by the Hyogo College of Medicine in Japan in 1993 suggested that the softer therapeutic effect and far superior safety of the low-power laser compared to high-power lasers, and in 2000, the European Society for Lasers and Energy-based Devices has verified its clinical effectiveness worldwide.

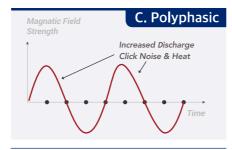
3 TYPES OF WAVEFORMS FROM A MAGNETIC FIELD



While making slightly more noise than Monophasic, it is a short pulse and the most effective for treatment by stimulating the deep part of the human body



Monophasic generates less noise and heat than Biphasic, yet it hardly affects the deep part of the human body



Despite its effectiveness in stimulating the cortex on both sides of the human brain, Polyphasic generates a lot of noise and heat, and is not as precise.

A waveform with a narrow pulse and short rise time is suitable for penetrating deep into the body, whereas the less noise and less heat is generated, the better it is for the treatment of the human body. TESLA-3000 is a magnetic therapy device manufactured in a Biphasic, the most suitable waveform for the therapeutic magnetic field.



Wever Instruments Co., Ltd.

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激光磁場理療伙的領先者

TESLA-3000







深穿透電磁場治療和激光治療

→ 深穿透射电磁疗法&激光治疗

'TESLA-3000'作为一种深层刺激电磁治疗和激光治疗的复合刺激器,是有协同治疗作用的,并用于痛症治疗的医疗器械。它是将强力脉冲型磁场 (Biphasic型) 瞬间穿透人体,作用于肌肉及神经组织深处,帮助缓解疼痛的医疗器械。

'TESLA-3000'产品特征

- 1. 磁场在不伤害人体的前提下,不受脂肪及骨骼的干扰,可安全、轻松地刺激神经系统。
- 2. 无创刺激,不会损伤皮肤或诱发疼痛。
- 3. 脉冲磁场,可穿透人体深部组织及骨关节,快速产生作用。
- 4. 通过无创、非接触方式的治疗,穿着衣服也可以接受治疗。

'TESLA-3000'适应症

- 1. 医用激光照射仪-缓解疼痛
- 2. 医用电磁场发生器-缓解肌肉酸痛

'TESLA-3000'优点

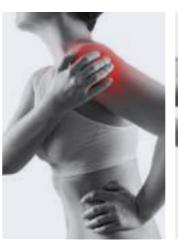
- 1. 强大的功率和刺激感
- 2. 长时间治疗也能保持稳定的动作
- 3. 简单的操作方法 (只5分钟可以熟练掌握使用方法)
- 4. 不需要耗材等一切维护费用,可长期使用
- 5. 针对每位患者治疗的时间最短

TESLA-3000 Specifications

额定电压 AC 220~230V, 50/60Hz 功耗 2KVA 磁场强度 0~4.5T 磁场波形 Biphasic 刺激频率 0.1~30Hz 治疗模式 10 Automatic Mode 尺寸 38(W)×49(D)×141(H)cm 重量 56kg		
磁场强度 0~4.5T Biphasic D.1~30Hz 的 2.57模式 10 Automatic Mode R寸 38(W)×49(D)×141(H)cm	额定电压	AC 220~230V, 50/60Hz
磁场波形 Biphasic 刺激频率 0.1~30Hz 治疗模式 10 Automatic Mode 尺寸 38(W)×49(D)×141(H)cm	功耗	2KVA
刺激频率 0.1~30Hz 治疗模式 10 Automatic Mode 尺寸 38(W)×49(D)×141(H)cm	磁场强度	0~4.5T
治疗模式 10 Automatic Mode 尺寸 38(W)×49(D)×141(H)cm	磁场波形	Biphasic
R寸 38(W)×49(D)×141(H)cm	刺激频率	0.1~30Hz
	治疗模式	10 Automatic Mode
重量 56kg	尺寸	38(W)×49(D)×141(H)cm
	重量	56kg













3 肌肉骨骼疾病治疗

'TESLA-3000'是通过无创方式作用于患者的压痛点(Tender Points)并传递磁场(深度刺激)与3点激光,发挥缓解疼痛的效果。

Э'TESLA-3000'治疗部位







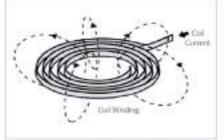


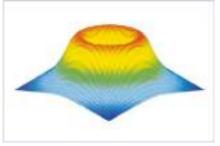


→ 磁场头 (Transducer)

将强大的脉冲型磁场 (Biphasic型) 瞬间穿透人体,深入肌肉和神经组织







三脚激光二极管

Coil Wire产生的感应磁场

人体产生的感应电磁场模拟



(型) 磁场治疗 [ELECTRO MAGNETIC THERAPY]

磁场治疗与一般用于痛症治疗的电疗法相比,电流不直接流入人体,该产品通过非接触方式产生感应电流,从而进行痛症治疗。在电导体周围形成时间快速变化的磁场,导体(人体虽然比金属导电率低,但具有导体性质)内由"法拉弟定律"形成涡流。这样形成的涡流刺激神经细胞及肌肉等,发挥缓解痛症的效果。也就是说,刺激现有的电痛治疗无法治疗的深层生物组织,实现更根本的治疗。

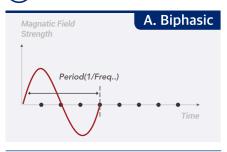
刺激用线圈 (Transducer) 表面产生的磁场的强度最大约为100~140V/m, 它传递到人体深处, 以指数函数的形式衰减, 在体内100mm处, 产生15~30V/m的电磁场, 安全地刺激深处并治疗。

电疗法的电极难以贴附人体部位也可以进行治疗,采用对人体无害的磁场方式,显著地减少了组织的损伤或危险性。 另外,由于磁场特性上没有很多能量衰减(Attenuation)就可以通过特定介质(可在穿衣状态下治疗),可深入治疗 患处。

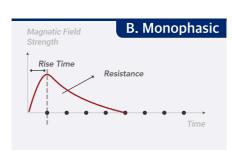
※ 低强度激光治疗 [LOW LEVEL LASER THERAPY, LLLT]

低强度激光(low intensity laser)不同于强激光,其特点为低输出能量,无光热效应。低强度激光中皮肤渗透力最佳波长为600nm~904nm,最佳刺激输出功率范围为2mW一100mW。人类大约在20世纪开始研究低输出激光理疗,直到20世纪80年代才证明低强度激光具有对细胞激活作用及深部刺激理疗效果,诸多临床数据证明低强度激光照射可以缓解对各种急慢性疼痛均有良好的疗效。

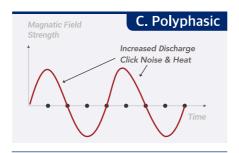
~ 3种常见的磁场波形



虽然比起Monophasic还存在一些噪音,但它脉冲短,最适合刺激和治疗人体的深处



虽然比Biphasic产生的噪音和发热度少,但 在人体深处不起作用。



虽然能有效刺激人体大脑两侧的皮质,但噪音和发热度很高,而且不精确。

为了深入人体深处进行治疗,适合Pulse宽度窄,Rise Time短的波形。噪音越小,热量越少越适合用于人体治疗。因此,最适合用于治疗的磁场的波形为Biphasic,本磁场治疗仪即为Biphasic型。



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Address Wever B/D, 22-9, Chungui-ro 37beon-gil, Uijeongbu-si Gyeonggi-do, Republic of Korea Tel +82-31-853-1924 Fax +82-31-853-1925 Website www.weverinstruments.com TESLA-3000 PR brochure CHN Rev.1











TESLA-3000





磁気治療装置

→ 深部到達電気磁気治療&レーザー治療

「TESLA-3000'は、身体の深部まで刺激する電気磁気治療と、レーザー治療を組み合わせることにより、複合的な刺激によってシナジー効果をもたらすことのできる革命的な治療装置です。強力な二相性パルス(Biphasic型)を瞬間的に人体の奥まで到達させることで、筋力や神経組織の深部にまで作用し、皮膚細胞を活性化させて、痛みを緩和する治療装置です。

'TESLA-3000'の特徴

- 1. 磁気とは、人体に害を与えない範囲内で、脂肪や骨の影響を受けずに神経系を安全かつ簡単に刺激します。
- 2. 出血を伴わない刺激であるため、肌にダメージを与えたり、 痛みを発生させたりはしません。
- 3. 磁気は身体の深部にまで作用することができます。 したがって従来の電気刺激治療よりさらに深い部分まで刺激が到達します。
- 4. 非侵襲・非接触型なので、服を着たままでも治療できます。

'TESLA-3000'の対象症例

- 1. 医療用レーザー照射機 痛みの緩和
- 2. 医療用電磁波発生機 筋肉痛の緩和

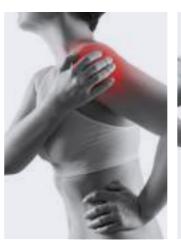
'TESLA-3000'の長所

- 1. 強力な出力と刺激
- 2. 長時間使用しても安定した動作が可能
- 3. 簡単な操作(5分以内で操作方法を理解できます)
- 4. 消耗品の交換などの維持費が一切かからず、半永久的に使用できる。
- 5. 患者1人に対応する時間を最低限に短縮できる。

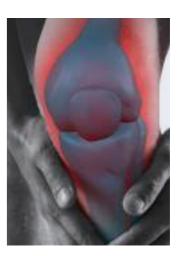
TESLA-3000 Specifications

定格電圧 AC 220~230V, 50/60Hz 消費電力 2KVA 磁場強度 0~4.5T 磁場波形 Biphasic 刺激頻度 0.1~30Hz 治療モード 10 Automatic Mode サイズ 38(W)×49(D)×141(H)cm 重さ 56kg		
磁場強度 0~4.5T 磁場波形 Biphasic 刺激頻度 0.1~30Hz 治療モード 10 Automatic Mode サイズ 38(W)×49(D)×141(H)cm	定格電圧	AC 220~230V, 50/60Hz
磁場波形 Biphasic 刺激頻度 0.1~30Hz 治療モード 10 Automatic Mode サイズ 38(W)×49(D)×141(H)cm	消費電力	2KVA
刺激頻度 0.1~30Hz 治療モード 10 Automatic Mode サイズ 38(W)×49(D)×141(H)cm	磁場強度	0~4.5T
治療モード 10 Automatic Mode サイズ 38(W)×49(D)×141(H)cm	磁場波形	Biphasic
サイズ 38(W)×49(D)×141(H)cm	刺激頻度	0.1~30Hz
	治療モード	10 Automatic Mode
重さ 56kg	サイズ	38(W)×49(D)×141(H)cm
	重さ	56kg











→ 筋骨格系疾患を治療

'TESLA-3000'は、患者の圧痛点(Tender Points)に磁気(深部刺激)と3点のレーザーを照射することで痛みを緩和する非侵襲的治療法です。

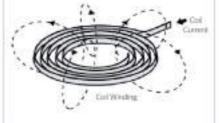
⇒ 'TESLA-3000'の治療部位

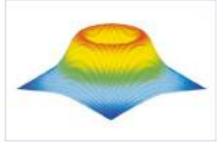


→ 磁気ヘッド(Transducer)

強力なパルス型磁気(Biphasic型)を瞬間的に人体に透過させて筋肉および神経組織の奥まで刺激する。







3点式ダイオードレーザー

ワイヤーコイルから発生する誘導磁場

人体から発生する誘導電磁場シミュレーション





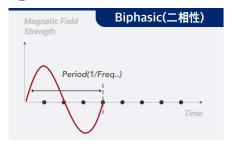
磁気治療 [ELECTRO MAGNETIC THERAPY]

磁気治療は、痛みの緩和のために一般的に用いられる電気治療とは異なり、人体に直接電流を流すのではなく、非接触式の誘 - 導電流を生成して痛みを治療します。 すなわち電気伝導体の周りに、 時間的に急速に変化する磁気を印加すると、 電気伝導 体(人体は金属に比べると電気伝導率は低いが、伝導体としての性質を持っています)内に'ファラデーの法則(Faraday's Law)'によって渦電流が形成されます。このように形成された渦電流は、神経細胞及び筋肉などを刺激して痛みの緩和に効果を 発揮します。すなわち従来の電気治療では治療できなかった深部の生体組織を刺激することで、より根本的な治療が可能にな ります。刺激用コイル(Transducer)の表面に発生する電磁場の強度は最大約100~140V/mで、これは人体の深部に伝達され ると同時に指数関数的に減衰して体内の深部100mmでは15~30V/mの電磁場が発生し、深部を安全に刺激して治療しま す。また電極の付着が不可能なため電気治療の適用が困難だった人体部位の治療も可能になるとともに、人体に無害な磁気に よる治療により細胞組織の損傷の危険性を著しく減少させることができます。また磁気の特性上、エネルギーの減衰 (Attenuation)なしに特定の媒質を通過するので(服を着たまま治療できる)患部の深い部分の治療も可能です。

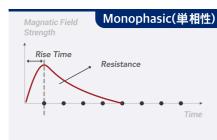
ば出力レーザー治療 [LOW LEVEL LASER THERAPY, LLLT]

生体刺激効果を得られる低出力レーザー(600nm~904nm、2mW~100mW)治療の研究は、1980年代から本格的に活発に なりました。1993年には'日本の兵庫医科大学'で「低出力レーザーは高出力レーザーに比べてはるかに安全でありながらマイル ドで高い治療効果を持つ。」という内容の論文が発表されました。そして2000年度には、第7回ヨーロッパ医学レーザー学 会'で低出力レーザーの臨床結果が世界的に立証されました。

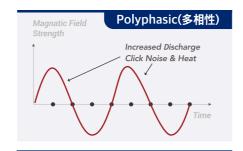
← 磁気から出る一般的な3つの波形



Monophasic(単相性)よりは若干のノイズが 発生するが、短いパルスで人体の深部を刺 激するので治療効果においては最も優れて



Biphasic(二相性)よりノイズと熱の発生は少 ないが、人体の深部まで刺激が伝達されに



人の脳の両側の皮質を刺激するのに効果が 高いが、大量の熱とノイズが発生し、精度が

人体の深部に侵透して治療するためにはパルス(Pulse)幅が狭く、立ち上がり時間(Rise Time)が短い波形が最適で、ノ イズや熱の発生が少ないほど人体の治療には適しています。したがって治療用磁気として最適な波形はBiphasic(二相 性)です。当社の磁気治療装置は、このようなBiphasic(二相性)型で製作しています。



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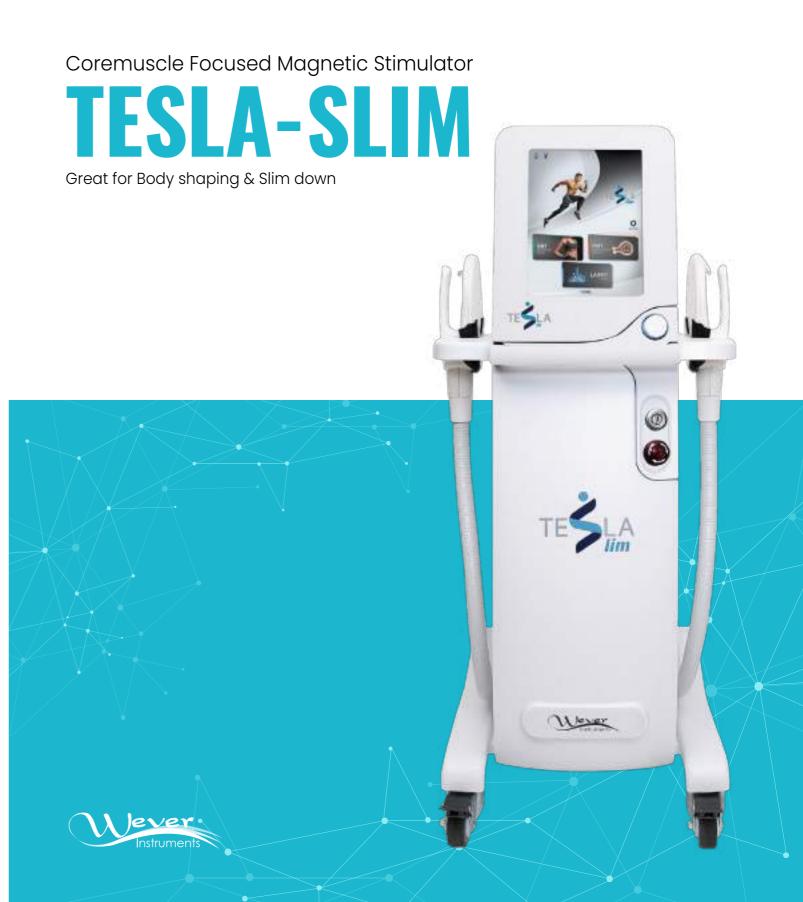
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Treatment Effect

A powerful effect of burning fat by contracting the entire muscle

Advantages of TESLA-SLIM

No side effect!! Use safe electromagnetic fields

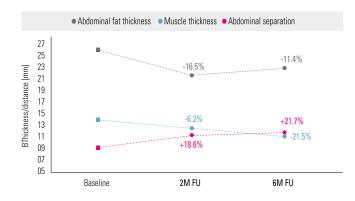
1. CFMS use electromagnetic fields used for MRI diagnosis, rather than current flowing between electrodes, so there is little risk of side effects such as burns in shallow skin layers.

Apply the most reliable Biphasic waveform

2. In order to penetrate deep into the human body and proceed with treatment, a biphasic waveform with a narrow pulse width and a short rise time is suitable, which has the advantage of less noise and less heat generation.

It strengthens your abs(abdominal muscles) & reduces fat

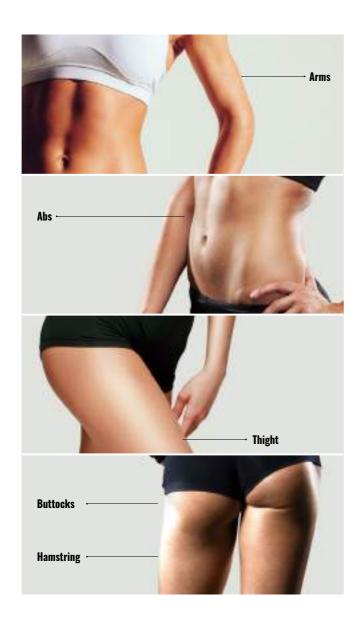
3. Many cases of CFMS treatment using electromagnetic fields are reported as muscle strengthening and fat reduction in treatment areas. According to overseas studies, after 4~5 treatments on abdominal muscles, the thickness of the abs became thick and the abdominal fat became thinner, resulting in an average reduction of 2 inches around the waist even without noticeable weight loss of weight.



Low level laser treatment

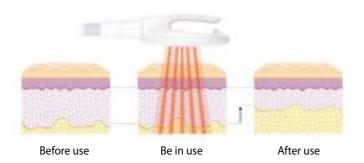
Low-level lasers (600nm~904nm) with bio-stimulating effects are significantly safer and smoother than high-intensity lasers.





It penetrates deep into the muscles and transmits strong impulses

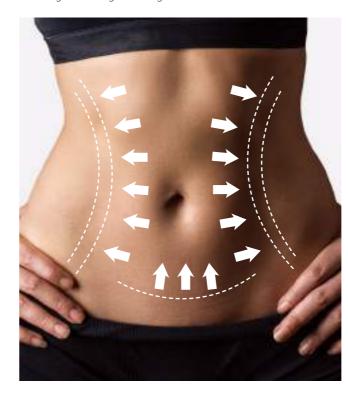
Since a strong electromagnetic field can reach a depth of $10cm(\pm 10\%)$, it stimulates the inner muscles of the deep layer to help decompose fat cells.



Treatment Characteristics

A new concept of CFMS treatment

CFMS procedures using the latest technology are particularly effective in making healthy abs, and with stronger stimulation, they can stimulate areas that are difficult to stimulate with physical exercise such as general weight-training.



Two magnetic heads enable treatment in various areas

By applying a double applicators and a fixed band, it can be treated in various areas such as the abdomen, thighs, and hips, so you can have a great and wonderful body. In addition, it is good for strengthening waist and back muscles that are painful and lethargic





Advantage of CFMS treatment



Safe procedures do not cause any scratches, bruises, or swelling on the surface of the skin.



Repeated muscle contraction relaxation exercise cycles produce less fatigue and release faster, **reducing muscle fatigue**.



Non-surgical & Non-invasive treatment enables comfortable and safe treatment.



Candidate? **Everybody**



How long? 30 Min / 1 Session



How long can use it? **No limit**



How often? 3 times a week



Warranty? 1 Year





TESLA-SLIM

CFMS treatment simultaneously strengthens muscles and breaks down fat cells

TESLA-SLIM is an aesthetic device for core muscle strengthening and pain relief, it is a differentiated device that can see various effects with one device. It momentarily transmits a powerful pulsed magnetic field to the human body, acting deep in muscles and cells, stimulating inner muscles and breaking down fat cells.

Features of TESLA-SLIM

Coremuscle Focused Magnetic Stimulation

1. Unlike conventional EMS electrical stimulation, CFMS uses technology applied to MRI equipment to penetrate deep into the skin and strengthen core muscles that are difficult to stimulate with exercise in a short period of time.

Great effect on muscle strengthening and body shaping

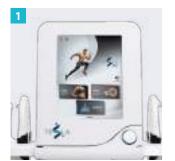
2. By repeating muscle contraction relaxation exercises, the skin surface becomes elastic and the abdominal muscles are improved to help build a beautiful body.

Various treatments can be made with one device

3. It is effective in relieving muscle pain by applying continuous stimulation to muscles as well as aesthetic treatments such as muscle strengthening and body shaping.



Detail View









Vertical type Touch screen

Lockable Wheel

Rear part

TESLA-SLIM Specifications

Power Input	AC220-230V, 50/60Hz	Hz	50Hz
Maximum Power Consumption	3.5kVA	Size (Height×Width×Depth)	480×580×1180(mm)
Intensity	4~5T	Weight	86kg
Type of Pulse	Biphasic	Safety Type	Type B



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治療効果

□ 筋肉全体を収縮させて脂肪を燃や す強力な効果

TESLA-SLIMの利点

副作用なし安全な電磁場を使用

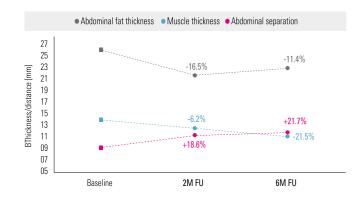
1. CFMSは、電極間を流れる電流を活用するのではなく、MRI診断に用いられる電磁界を使用します。そのため、薄い皮膚層に生じやすい火傷などの副作用の恐れがほとんどありません。

最も安定的な Biphasic波形を適用

2. 体の深くまで浸透して治療を行うためには、パルス幅が狭く、ライズタイムが短いバイフェイズィク(Bipashic)波形が適しています。これはノイズや発熱が少ないというメリットがあります。

腹筋は強化、体脂肪は減少

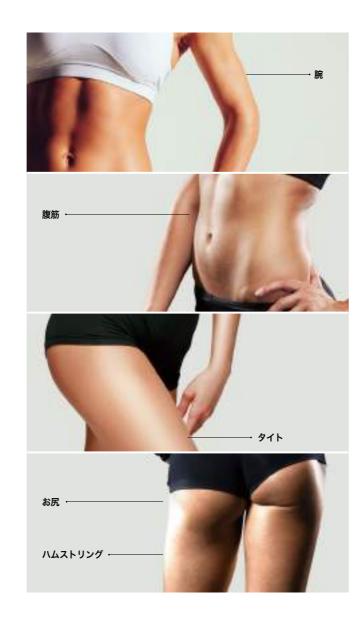
3. 磁場を活用したCFMS施術は、筋肉強化の効果および治療部位の脂肪減少効果の事例が多く報告されています。海外研究によると、腹部の筋肉に対して4-5回の施術を行った結果、腹筋は厚くなり、腹部の脂肪層は薄くなったうえ、目立つような体重の変化がなくてもウエストが平均2インチ程度減少したという報告があります。



筋肉の奥まで深く浸透し、 強い刺激を与える

強力な電磁場が10cm(±10%)の深さまで到達できるため、深層部のインナーマッスルまで刺激し、脂肪細胞の分解に役立ちます。





低出力レーザー治療が可能

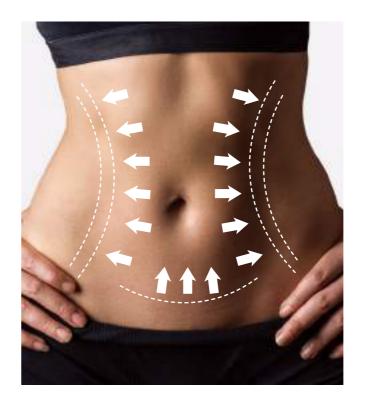
生体刺激効果が得られる低出力レーザー(600nm-904nm、2mW-100mW)は、高出力レーザーに比べて極めて安全で優しい治療が可能です。



作用メカニズムと施術部位

新発想のCFMS施術法

最新技術を採用したCFMS施術は、健康な腹筋作りに特に効果的です。 より強い刺激を与えることで、一般的なウェイトトレーニングなどの身 体運動では刺激しにくい部位まで刺激し、身体を鍛えることができま す。



2つの磁気発生ヘッドを使用し、 様々な部位の施術が可能

ダブルアプリケーターと固定バンド採用し、腹部、太もも、お尻など様々な部位に施術が可能で、美しくて素敵なボディメイクができます。 他にも筋肉痛の緩和、腰や背中の筋肉強化にも効果的です。





CFMS施術のメリット



副作用の心配なし安全な施術であるため、肌表面に傷やあざ、腫れなどがまったく生じません。



筋肉の収縮・弛緩サイクルの繰り返しにより、疲労物質の発生が少なくなり素早く排出されるため、筋肉の疲労感が軽減されます。



非手術的・非侵襲的な治療法であるため、安全かつ快適な治療が可能です。



誰が利用できますか? どなたでもご利用いただけます。



施術時間はどれくらいかかりますか? 1セッションあたり30分ほどかかります。



使用期限はどれくらいですか? 期限はありません。



どのくらいの頻度で使えばいいですか? 週3回ほどお使いください。



保証期間は? 1年です。





□ の集中型磁気刺激により筋肉強化と脂肪分解を同時に

TESLA-SLIMは、コアマッスルを強化するエステ美容機器で、1台で様々な効果が得られる差別化されたデバイスです。強力なパルス状の磁場を瞬時に体に透過させ、筋肉や細胞の奥深くまで浸透させると、インナーマッスルが刺激され、脂肪が分解されます。

TESLA-SLIMの特長

集中型磁气刺激

1. 集中型磁気刺激治療(CFMS)は、従来の一般的なEMS電気刺激とは異なり、MRI機器に採用される技術を応用しています。皮膚の奥深くまで浸透し、運動だけでは刺激しにくいインナーマッスルを短期間に強化します。

筋肉強化・ボディメイクに効果的

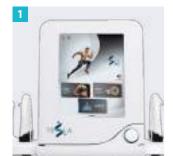
2. 収縮と弛緩を繰り返すことで、たるんだ肌に弾力を与え、腹直筋離開を改善して美しい身体づくりに役立ちます。

1台のデバイスで様々な治療が可能

3. TESLA-SLIMは、筋肉の強化やボディメイクなどの医療エステだけでなく、筋肉に持続的な刺激を与えることで、筋肉痛を緩和する効果があります。



詳細ビュ



縦型モニターの タッチパネル



便利なスタ ンド型



ストッパー付 キャスター



すっきりした 背面部

TESLA-SLIM Specifications

電力入力	AC220-230V, 50/60Hz	ヘルツ	50Hz
最大消費電力	3.5kVA	サイズ(高さ×幅×奥行)	480×580×1180(mm)
強度	4~5T	重量	86kg
パルスの種類	Biphasic	安全タイプ	Type B



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